

ABSTRACT

A device for tuning a Bragg grating, by compression by a piezoelectric actuator. The device is particularly applicable to optical telecommunications and for example includes a mechanism to compress an optical fiber portion, containing a Bragg grating, and a mechanism to prevent buckling of the portion, a tube crossed by the portion, and a guide to guide this portion in the tube. The compression mechanism includes a curved deformable component and a piezoelectric actuator that is positioned between the component and the tube, and that extends when it is energized and thereby deforms the component, the latter then compressing the portion.